

Project Learning

I. What are the “Lessons Learned” requirements?

II. How can you fulfill the requirements AND maximize benefits to the projects?

May 8, 2012, FPD All-Hands
Barbara Fillip

I. What are the “Lessons Learned” Requirements?

NPD 7120.4

NPR 7120.5

NPR 7120.6

NPD 7120.4



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graph TD; A[NPD 7120.4] --> B[NPD 7120.4 establishes the NASA Chief Engineer's overall responsibility for policy on lessons learned, LLIS, etc...]; B --> C[NPD 7120.4 also states that "managers and engineers responsible for the realization of a program, project, service or activity shall: (7) Collect, document, and submit program, project and engineering lessons learned in accordance with NPR 7120.6."];
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NPR 7120.6."

NPR 7120.6



NPR 7120.6 - Lessons Learned
Focuses on...

- 1) how to process the lessons captured through a Center Data Manager and Center Lessons Learned Committee;
- 2) how lessons are to be submitted for review prior to dissemination through the agency-wide Lessons Learned Information System (LLIS).

NID for NPR 7120.5

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graph TD; A[NID for NPR 7120.5] --> B[NID for NPR 7120.5 Projects should have a Lessons Learned Plan as a sub-element of the project plan.]; B --> C[The lessons learned plan must "describe the project's approach to capturing lessons learned in accordance with NPD 7120.4... and as described in NPR 7120.6... and other appropriate requirements and standards documentation."];
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NID for NPR 7120.5 Projects should have a **Lessons Learned Plan** as a sub-element of the project plan.

The lessons learned plan must "describe the project's approach to capturing lessons learned in accordance with **NPD 7120.4...** and as described in **NPR 7120.6...** and other appropriate requirements and standards documentation."

Program / Project Management Handbook

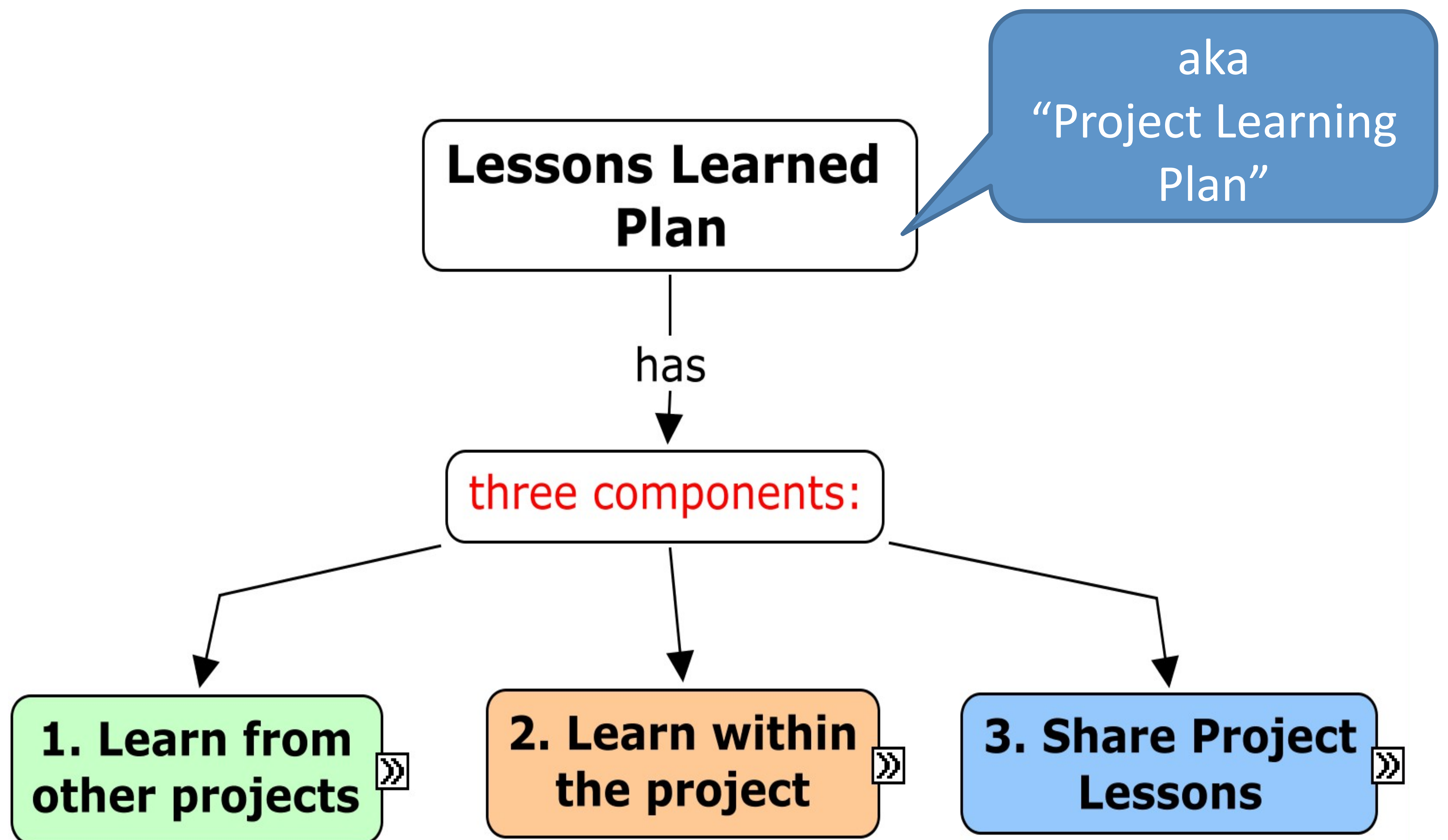


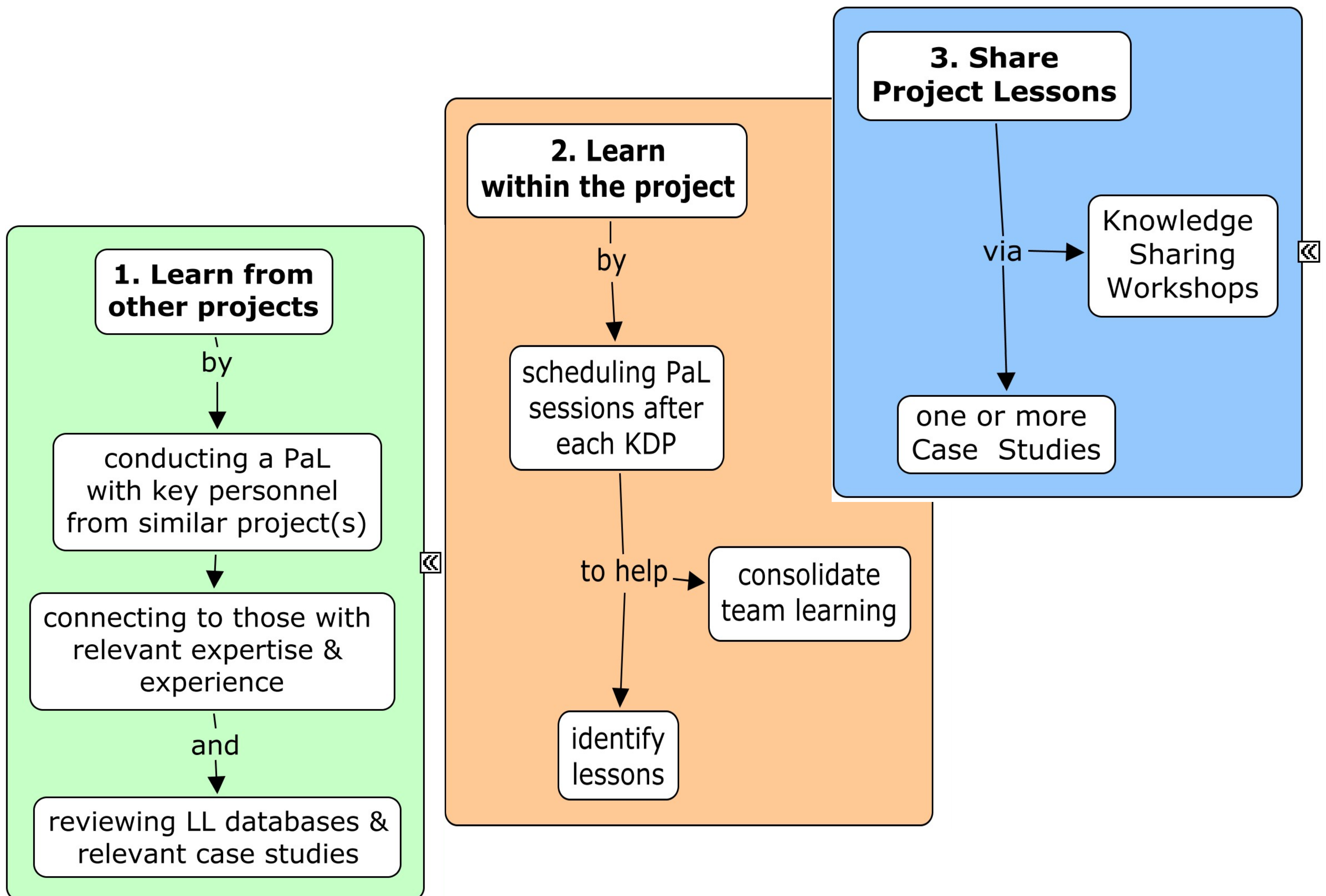
"During Phase [B, C, D, E and F], the project management and the project team:....

q) Document lessons learned in accordance with NPR 7120.6, Lessons Learned Process and NPD 1000.5."

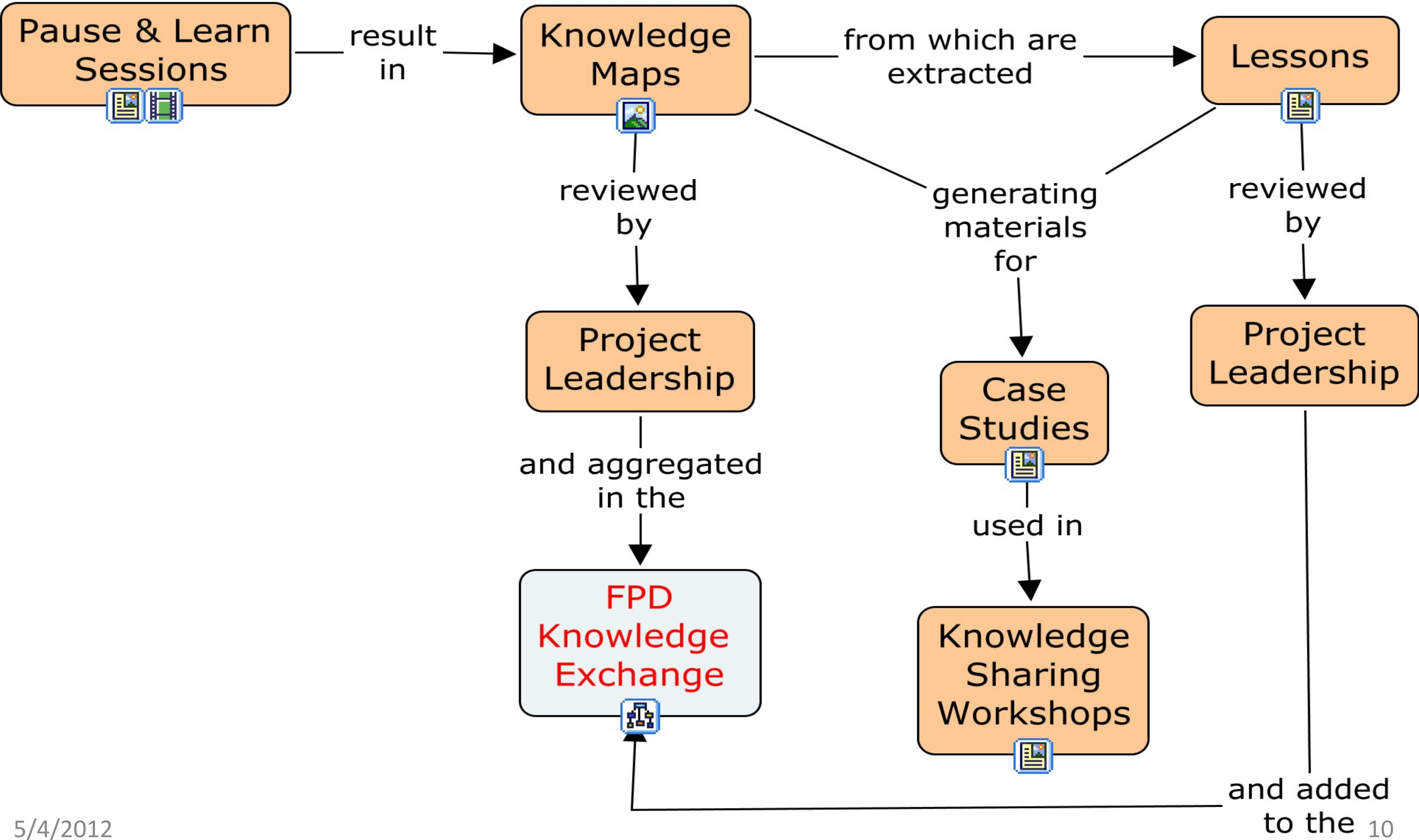
II. How can you fulfill the requirements AND maximize benefits to the projects?

- Components of a Lessons Learned Plan
- Project Learning Processes
- Timeline of Project Learning Activities & Project Life cycle
- Knowledge Exchange (resource hub)



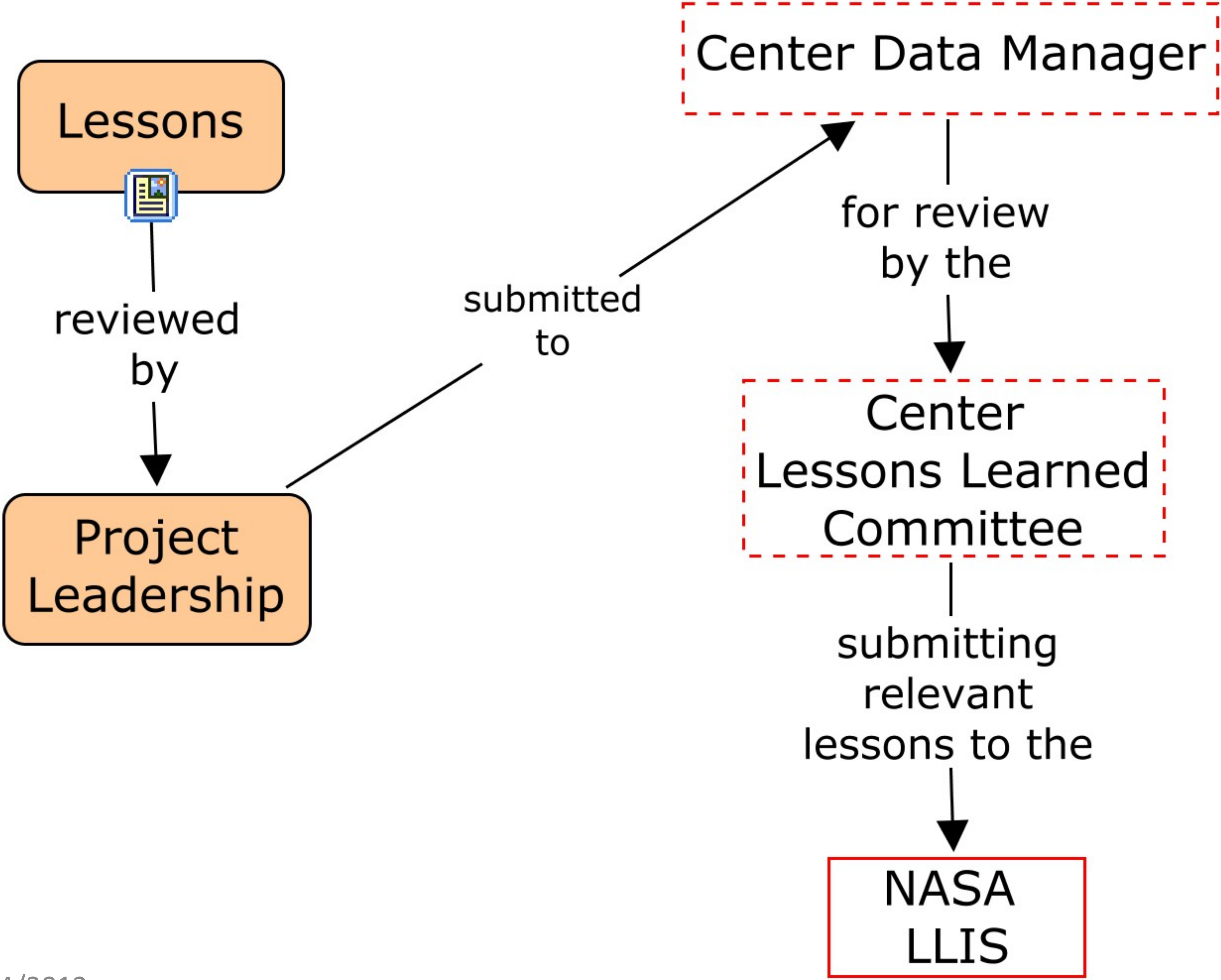


Capture Lessons Learned throughout the project life cycle



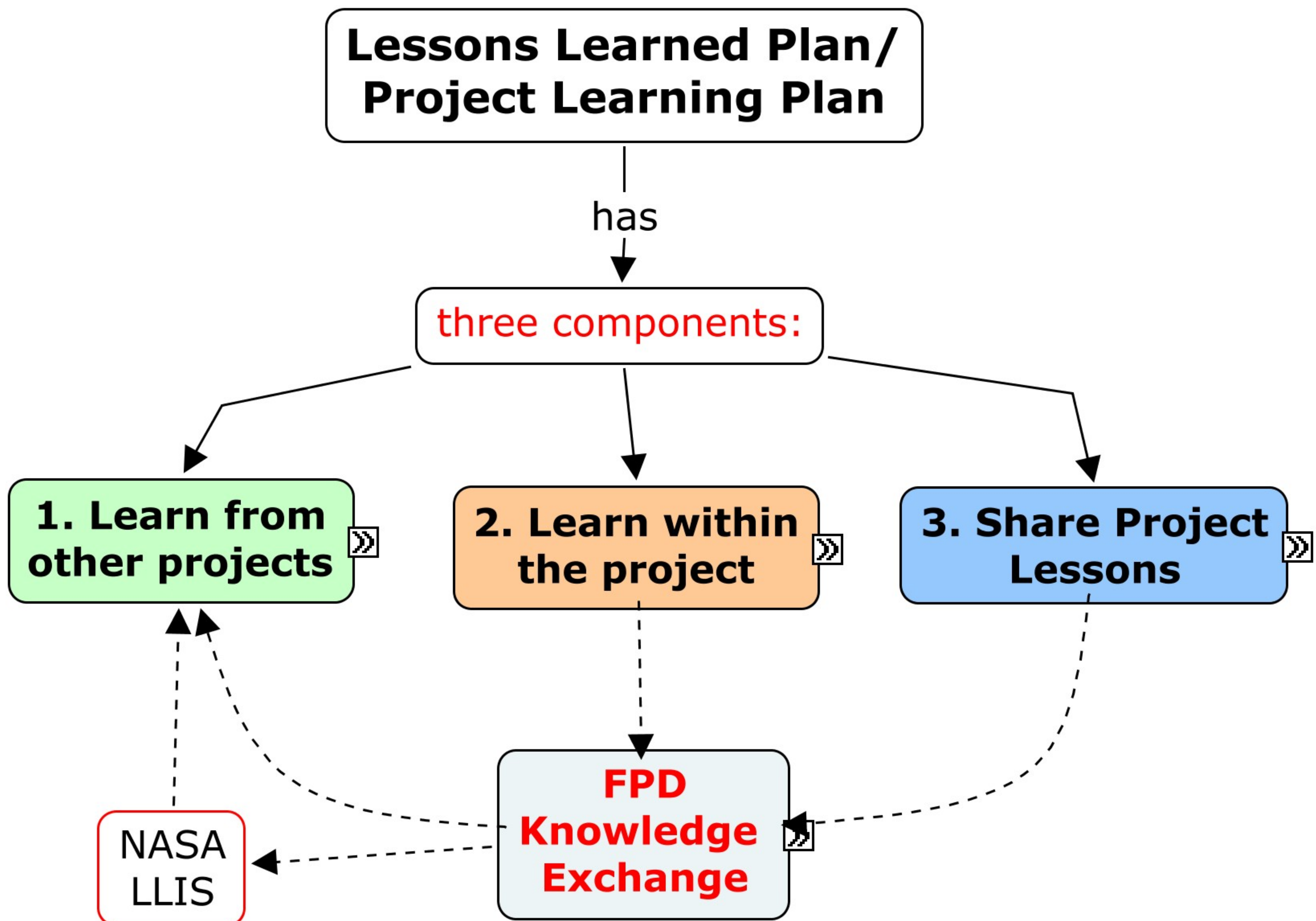
NPR 7120.6

Share Lessons with the broader NASA Community



Timeline of Activities

- Review lessons learned from other relevant projects (repeat as appropriate at the beginning of each phase)
- Draft the initial Lessons Learned Plan after KDP A and incorporate into the Preliminary Project Plan; Hold a PaL, review and submit lessons.
- Hold a PaL after KDP B, review and submit lessons
- Hold a PaL after KDP C, review and submit lessons
- Hold a case study planning meeting (six month prior to launch)
- Hold a PaL after KDP D/launch, review and submit lessons
- Consolidate all Lessons Learned into a Final Lessons Learned Report (within 60 days of launch)
- Schedule knowledge sharing workshop (within 60 days of launch)
- Hold a PaL every two years during Phase E, review and submit lessons



FPD KNOWLEDGE EXCHANGE

consists of

**Policy &
Official Guidance**

**FPD
Insights**

**Knowledge
Areas**

Updated
Resources

Discussion
Forums

Knowledge
Maps


Updated
Resources

Discussion
Forums

Site Actions

Browse

Page



400 Knowledge Exchange

Knowledge Areas

A "knowledge exchange" space for the Flight Projects Directorate, focused on learning from GSFC projects.

Home

Policy & Official Guidance

FPD Insights

Case Studies

Knowledge Management Corner

Events

FAQ

KNOWLEDGE AREAS

Schedule Management

Cost Management

Requirements Management

Decision Making

Partnerships

Reviews

Organizing and Staffing

Risk Management

Safety

Technology Development

Procurement

External Factors

Learning from Projects

Knowledge Areas

[Cost Management]]

- Budget d
- Cost esti
- Cost

Procurement

- Procurem
- Determin
- Contract
- Contract
- See also

Schedule Management

- Schedule Management Tools
- Pre-Schedule Development Activities
- Schedule Development
- Status Updates and Schedule Maintenance

Key topics / knowledge areas that are the basis for the site's internal taxonomy, providing a common organizing scheme.

Schedule Management

m for a specific mission or activity

ost Management

Lists

FPD Knowledge Exchange (KE)

Announcements

Body

- Title : Event: April 26 - Goddard Spring Masters Forum (1)
- Title : Event: July 31 - Organizational Silence (1)
- Title : Event: June 5th - Pulse of the Profession - Mark Langley (1)
- Title : Event: May 31 - Case Study Workshop - Sitting on the Fence (1)
- Title : Introducing the Knowledge Exchange (1)

- Frequently Asked Questions about the Knowledge Exchange?
- The Big Picture
- An Introduction to the Knowledge Exchange (PPT coming soon)

Policy & Official Guidance

This is where you will find links to all the up-to-date policy-related documents and official guidance relevant to your project.

Check out the e-version of the NASA Project Management Handbook.

Notes about links:

- Links to agency-level policy will always take you to the NODIS site for the latest documents.
- Links to GSFC-level policy will always take you to the GDMS site for the latest documents.

Your input is requested:

- Is a relevant document missing?
- Did you see a link to anything that is out-of-date?
- Would you like to suggest a discussion around a specific policy document, upcoming policy change, or other policy-related topic?

POC: John Decker

5/4/2012

FPD Insights

Maps, maps, and more maps!

This is where you will access the aggregated wisdom of past and ongoing projects. FPD Insights is a collection of Knowledge Maps which can be navigated by Mission and by Knowledge Area.

Questions? (see FAQ section for answers)

- What's the connection between "insights" and "lessons learned"?
- How is the content of maps validated?
- What's the best way to navigate the knowledge maps?
- Where do these "insights" come from?

Your feedback is requested:

- Are the maps helpful? How?
- What types of questions do the maps help you address?
- What types of questions do the maps fail to address?
- Any recommendations for improving the maps (both in terms of content and format)?

Knowledge Areas

This is where you will find links to additional resources organized along key knowledge areas.

Each Knowledge Areas has a dedicated page. Resources include:

- Policy and Official Guidance documents (always listed at the top)
- Case Studies
- ASK Magazine Articles
- Training materials

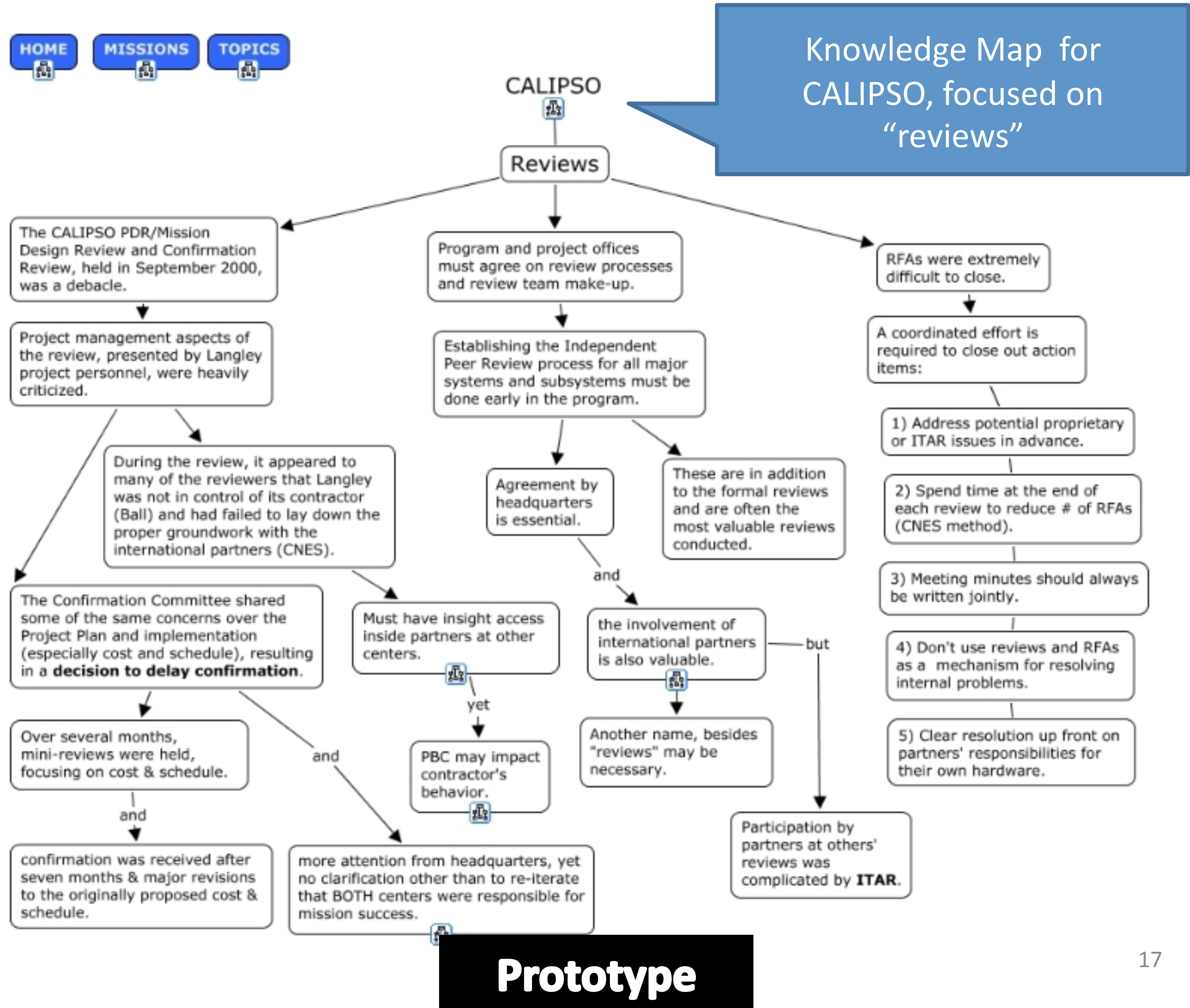
Notes about links:

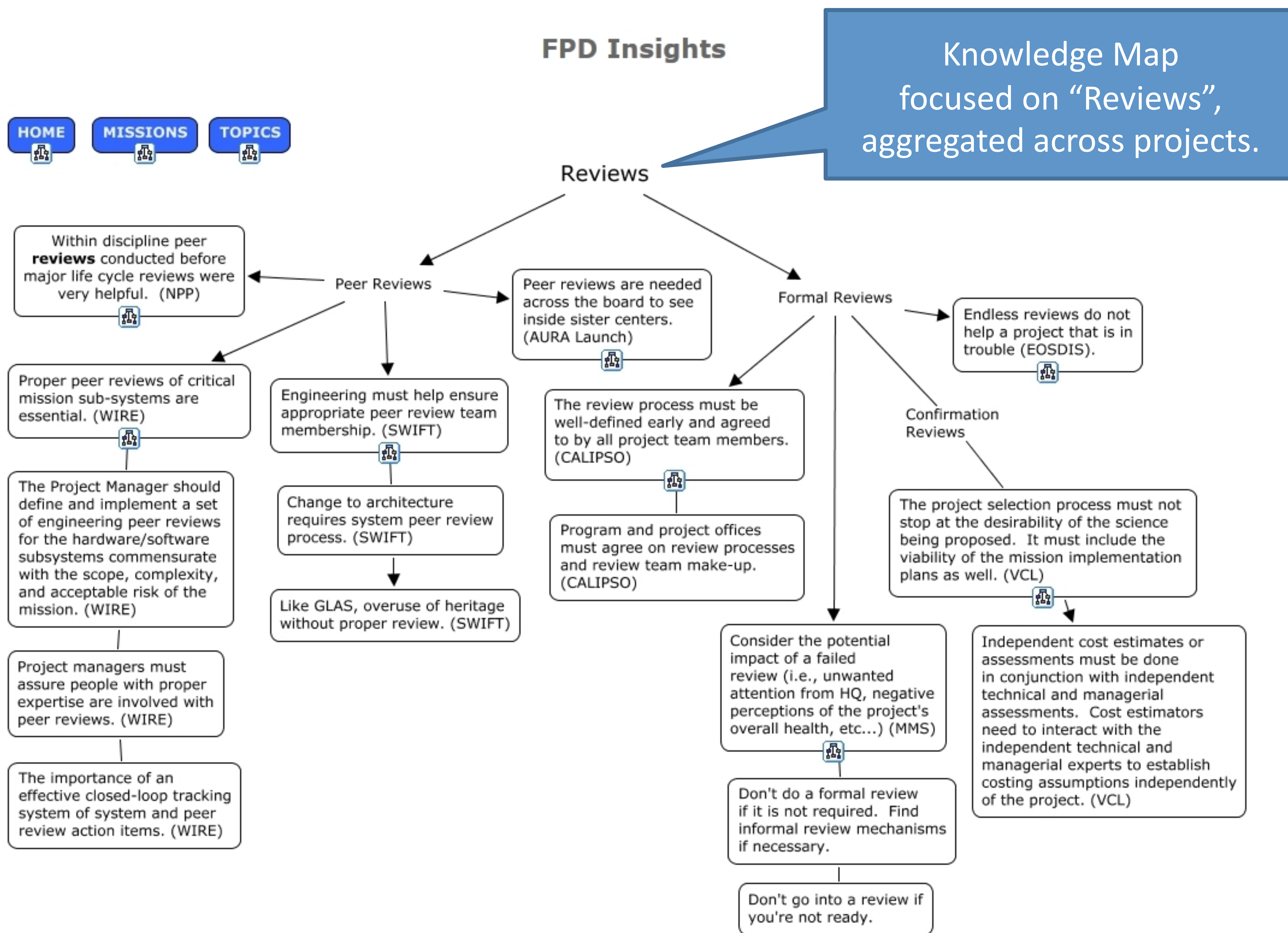
- Most links lead to materials outside of this Knowledge Exchange.

POC/Curators: Each knowledge area will have a designated POC/SME. See POC information on individual Knowledge Area pages.

Prototype

FPD Insights





OCKO Support

1. Establish a standard process for all projects to collect, document and submit lessons learned;
2. Provide a template Lessons Learned plan that can be tailored to the specific needs of individual projects and programs;
3. Support any or all aspects of the implementation of the learning plan at the program and project level;
4. Aggregate lessons learned at the directorate level;
5. Facilitate the submission of lessons learned to the Center Data Manager in accordance with NPR 7120.6.

Contact Barbara Fillip (barbara.fillip@nasa.gov) or Ed Rogers (edward.w.rogers@nasa.gov)

Final Words

The objective of PROJECT LEARNING activities is to enhance learning within and across projects (while complying with lessons learned requirements).